	Application No.	Applicant(s)	
Notice of Allowability	10/711,491	ROTHSTEIN, ARTHI	UR
	Examiner	Art Unit	
	Brandon S. Hoffman	2136	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to appeal brief filed September 19, 2007.			
2. The allowed claim(s) is/are <u>1-5,7-24,26-38,40-47,49-55 and 57-60</u> .			
3.			
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material  NASSER MOAZZAMI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☒ Examiner's Amendr 8. ☒ Examiner's Stateme 9. ☐ Other	(PTO-413), te ment/Comment	wance
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## **DETAILED ACTION**

1. Claims 1-5, 7-24, 26-38, 40-47, 49-55, 57-60 are pending in this office action, claims 6, 25, 39, and 56 are canceled with the following examiners amendment.

## Allowable Subject Matter

- 2. Claims 1-5, 7-24, 26-38, 40-47, 49-55, and 57-60 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: the prior art of record fails to teach extracting export information of a function by removing the export information from an export table. This prevents a hacker from reading and using the export information in order to exploit export information to be used in an attack.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with G. Mack Riddle (U.S. Reg. No. 55,572) on November 27, 2007.

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Claim 1 (Currently Amended). A method for securing a program comprised of a plurality of interoperable components, the method comprising:

extracting export information about a function of a first component of the program that is callable by at least one other component of the program, wherein said extracting step includes removing the export information from an export table of the first component;

securing the extracted export information;

in response to an attempt by a second component to invoke the function of the first component, validating authenticity of the second component;

if the authenticity of the second component is validated, providing access to the function of the first component using the secured extracted export information; and otherwise, blocking the attempt by the second component to invoke the function.

Claim 6 (Canceled).

Claim 15 (Currently Amended). A method for securing a program comprised of a plurality of modules, at least one of the modules having export information for allowing other modules to invoke its program code, the method comprising:

generating signatures for at least some of the program's modules;

as the program is loaded, validating said signatures so as to verify authenticity of respective modules of the program;

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for each module having program code that may be invoked by another module, removing that modules export information, wherein said removing step includes removing information from an export table;

securely storing any removed export information;

for each module having its export information removed, blocking any attempt from another module to invoke its program code if the other module cannot be authenticated; and

if the other module is authenticated, allowing the attempt to proceed using the securely stored export information.

Claim 25 (Canceled).

Claim 31 (Currently Amended). A system for securing a program comprised of a plurality of interoperable components, the system comprising:

a module for extracting export information about a function of a first component of the program that is callable by at least one other component of the program, wherein the module for extracting removes an export table entry for the function of the first component;

a module for securing the extracted export information;

a validation module for validating authenticity of a second component attempting to obtain export information to invoke the function of the first component, validating authenticity of the second component; and

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a security module for blocking the attempt to invoke the function of the first component if the second component cannot be authenticated.

Claim 39 (Canceled).

Claim 45 (Currently Amended). A method for securing an exported function of a program, the method comprising:

extracting export information about the exported function of the program, wherein said extracting step includes removing an export table entry for the exported function;

securing the extracted export information;

intercepting an attempt to access the exported function by an importer;

authenticating the importer for determining whether to permit access to the exported function;

if the importer is authenticated, providing access to the exported function based on the secured extracted export information; and

otherwise, blocking access to the exported function.

Claim 56 (Canceled).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon S. Hoffman whose telephone number is 571-272-3863. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser G. Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brandon Hoffman/

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